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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/759,867	01/12/2001	Daniel R. Marshall	10002307-1	2416

7590 01/15/2004

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, CO 80527-2400

EXAMINER

PEYTON, TAMMARA R

ART UNIT	PAPER NUMBER
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2182

DATE MAILED: 01/15/2004

5

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/759,867

Applicant(s)

MARSHALL, DANIEL R.

Examiner

Tammara R Peyton

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 November 2003.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-37 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-37 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

  
FRITZ FLEMING  
PRIMARY EXAMINER  
GROUP 2100

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413) Paper No(s) \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 30 and 34 are rejected under 35 U.S.C. 102(e) as being anticipated by *Frenkiel et al.* (US 2002/0198958).

1. As per claim 30, *Frenkiel* teaches a method of distributing books in electronically readable format, comprising;
  - providing an entertainment library being located in a public venue (100, Fig.2) and having a selection of books in electronically readable format;
  - providing a portable storage module (116, Fig.2) with a display;
  - selecting at least one book from the entertainment library with the portable storage module;
  - downloading the selected book in electronically readable format from the entertainment library to the portable storage module; and

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display at least a portion of the selected book on the display. (Abstract, [0033], [0044])

2. As per claim 34, *Frenkiel* teaches of distributing movies in electronic format, comprising;

providing an entertainment library being located in a public venue and having a selection of movies in electronic format;

providing a portable storage module (116, Fig.2) with a display;

selecting at least one movie form the entertainment library;

downloading the selected movie in electronic format from the entertainment library to the portable storage module; and

displaying at least a portion of the selected movie on the display.

(Abstract, [0033], [0044])

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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Claims 1-8 and 11-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Frenkiel et al.* (US 2002/0198958) and *Gibson et al.* (US 5,557,596), filed as Prior Art, paper #2.

3. As per claims 1 and 15, *Frenkiel* teaches a method of handling information comprising:

- storing electronically readable information including (entertainment media packet) audio and visual media into a portable storage module (personal data pack, 114, Fig.2, pg. 4, [0044]) including a memory component (pg. 5, [0046], Fig.4); and
- recalling selectively a portion of the electronically readable information from the memory component of the portable storage module into an information playback device (Fig. 6, [0049]) for consumption by a user. (*Frenkiel*, Abstract, pg. 2, [0036] – pg. 5, [0051])

4. *Frenkiel* teaches a portable storage module that allows a user to electronically download and store audio and visual (i.e. movies) information. Once the download is complete the user may then download the movie to another device for example a television or DVD player for viewing or transmission the recently downloaded information to another device like an automobile for viewing. (pg. 5, [0048-0049])

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5. *Frenkiel's* teaches that the portable storage module includes a hard disk but any form of storage could be used (pg. 5, [0046]). However, *Frenkiel* is silent in respect to the storage component being an atomic resolution storage memory component. Applicant's specification explained an atomic resolution storage memory component as a non-volatile memory storage device capable of storing a large volume of data within a relatively small storage area such as a pendant. (Specification, pg. 4, lines 6-13) *Gibson* teaches the use of atomic resolution storage memory component (high density storage device) that is capable of storing a large volume of data within a relatively small storage area.

6. It would have been obvious to one of ordinary skill at the time the invention was made to replace *Frenkiel's* storage medium and implement *Gibson's* atomic resolution storage memory component. Doing so would add and expand the flexibility to *Frenkiel* portable storage module by increasing the storage density in *Frenkiel* portable storage module without increasing the size of the memory component. (*Gibson*, col. 1, lines 52-63)

7. As per claim 2, *Frenkiel-Gibson* teaches wherein the storing step further includes transferring the electronically readable information from an external information source (100, Fig. 2, *Frenkiel*) into the (atomic resolution storage) memory component of the portable storage module.

8. As per claim 3, *Frenkiel* teaches selecting at least one of a stationary entertainment library and an Internet website as the external information source.

(*Frenkiel*, [0033-0037])

9. As per claim 4, *Frenkiel* teaches wherein the storing step further comprises:

- providing multiple types of entertainments media as the electronically readable information;
- storing the entertainment media into the external information source; and
- providing the electronically readable information for user-initiated wireless transfer from the external information source to the portable storage module. (*Frenkiel*, [0033-0038], [0044])

10. As per claim 5, *Frenkiel-Gibson* teaches of repeating the storing step to capture additional electronically readable information into the atomic resolution storage memory component of the storage module.

11. As per claim 6, *Frenkiel* teaches wherein the information playback device could be a computer. [0046]. One of ordinary skill would readily recognize that *Frenkiel-Gibson* would be motivated to utilize a notebook computer for its playback capabilities, because it would add and expand the flexibility of the if the portable storage device.

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12. As per claim 7, *Frenkiel* teaches wherein the information playback device is an audio player ([0046]).

13. As per claim 8, *Frenkiel* ([0033]) teaches wherein the electronically readable information is at least one of a book, a music collection, and a movie.

14. As per claim 11, *Frenkiel-Gibson* teaches the storing step that provides the storage module with a communication interface and obviously a power supply. (*Frenkiel*, Fig.4)

15. As per claims 12, 16, and 17, *Frenkiel* teaches of providing the communication interface with a wireless communication path including infrared or radio frequency paths. (*Frenkiel*, [0038], [0044])

16. As per claim 13, *Frenkiel-Gibson* teaches wherein the atomic resolution storage memory component further includes a controller for operating the portable storage device and communication between the memory component and the communication interface.

17. As per claim 14, *Frenkiel* obviously performs the storing step and the recalling step in a broadband frequency format. (*Frenkiel*, [0038], [0044])



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18. As per claim 18, *Frenkiel* teaches wherein the information playback device could be a computer. [0046]. One of ordinary skill would readily recognize that most computers comprises at least one of a microphone, a speaker, an input keypad, and a display for communicating with the atomic resolution storage memory component of the storage device via the communication interface.

19. As per claims 19 and 23, *Frenkiel-Gibson* teaches wherein the storage device further includes a logic controller. Furthermore, *Gibson* teaches of a controller located on the atomic resolution storage device.

20. As per claims 20 and 21, *Frenkiel* ([0033]) teaches wherein the entertainment packet includes at least one audio element and that the audio element is a music CD.

21. As per claim 22, *Frenkiel* ([0033]) teaches wherein the entertainment packet includes at least one printed media in the form of electronic audio book.

22. As per claim 24, *Gibson* teaches wherein the atomic resolution storage memory component further comprises:

- a field emitter (102, 104, Fig. 1a) fabricated by semiconductor microfabrication techniques capable of generating an electron beam current; (col. 2, lines 27-30) and

- a storage medium (106, 108, Fig.1a) in proximity to the field emitter and having a storage area in one of a plurality of states to represent the information stored in the storage area. (*Gibson*, col. 2, lines 1-26, col. 3, lines 15-20, col. 5, lines 65-67, col. 9, lines 1-11)

23. As per claim 25, *Gibson* teaches wherein an effect is generated when the electron beam current bombards the storage area, wherein the magnitude of the effect depends upon the state of the storage area, and wherein the information stored in a storage area is read by measuring the magnitude of the effect. (*Gibson*, col. 2, lines 15-19, col. 5, lines 67-col. 6, lines 1-9, col. 9, lines 1-11)

24. As per claim 26, *Gibson* teaches wherein the atomic resolution storage memory component further comprises:

- a plurality of storage areas on the storage medium (106, 108, Fig.1a), with each storage area being similar to the one recited in claim 24; and
- a microfabricated mover (110, Fig. 1a) in the storage device to position different storage areas to be bombarded by the electron beam current. (*Gibson*, col. 2, lines 1-30, col. 3, lines 15-20, col. 5, lines 65-67)

25. As per claim 27, *Gibson* teaches wherein the atomic resolution storage device further comprises:

- a plurality of field emitters, with each emitter being similar to the one recited in claim 24, the plurality of field emitters being spaced apart, with

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each emitter being responsible for a number of storage areas on the storage medium; and

- such that a plurality of the field emitter can work in parallel to increase the data rate of the storage device.

26. As per claim 28, *Gibson-Frenkiel* teaches a housing that encloses the storage device (*Gibson*, Fig.1a) and the communication interface (*Frenkiel*, [0046]).

27. As per claim 29, *Frenkiel-Gibson* teach an information transfer and consumption system comprising:

- a portable entertainment media storage module (personal data pack, 114, Fig.2, pg. 4, [0044]) comprising:
  - an storage device (pg. 5, [0046], Fig.4) capable of storing at least one entertainment media packet which includes audio and visual media; ([0033]) and
  - a communication interface (processor, 111, user input device, 113, receiver, 102, Fig. 1) for communicating to and from the atomic resolution storage device;
- an information library of multiples types ([0033], 100 Figs. 1, 2, 3 and 5) of entertainment media stored as electronically readable information including:

- a master memory module (Figs. 1, 2, 3 and 5) storing a collection of entertainment media; and
- a communication interface (Figs. 1, 2, 3, and 5) for selectively transferring a copy of a selection of the entertainment media collection from the information library to the atomic resolution storage device of the portable entertainment media storage modules; and
- an entertainment media playback device ([0046]) for retrieving the entertainment media from the atomic resolution storage device of the module and for making the entertainment media available in a consumable format.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9, 10, 31-33, and 35-37 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Frenkiel et al.* (US 2002/0198958) and *Gibson et al.* (US 5,557,596) as applied to claims 1-29, 30, and 34 above, and further in view of *Gioscia et al.*, (WO 00/30117).

28. As per claims 9, 10, 31-33 and 35-37, neither *Frenkiel* nor *Gibson* expressly teach containing the portable module within a housing and wearing the housing storage module on or about the body of a user. However, one of ordinary skill would readily recognize that *Gibson* teaches that the atomic resolution memory storage that is capable of storing a large volume of data within a relatively small storage area; and, *Frenkiel's* portable storage module would be small enough for the user to carry on or about the body. Neither *Frenkiel* nor *Gibson* expressly teaches wherein the portable storage module is implemented in a wristwatch, a neck worn pendent, a bracelet, a cellular phone, or a pair of eyeglasses. Nonetheless, *Gioscia* teaches (pg. 9, lines 8-23) arranging a portable storage module within a wristwatch or a clip that can be worn on the user. However, *Gioscia* does not teach of arranging the storage module within a neck worn pendent, a bracelet, a cellular phone, or a pair of eyeglasses. Nonetheless, it would have been obvious to one of ordinary skill at the time the invention was made that it would not be out of the scope of *Gioscia's* portable storage module to be implemented in a neck worn pendent, a bracelet, a pair of eyeglasses; because, *Gioscia* already teaches of implementing the portable storage module in a way that can be worn by the user.

It would have been obvious to one of ordinary skill at the time the invention was made that would not be out of the scope of *Frenkiel-Gibson* to implement the portable storage module similar to *Gioscia's* portable storage module and not depart from the *Frenkiel-Gibson* inventive concept, because *Frenkiel-Gibson*

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previously taught a portable storage module that would be small enough for the user to carry on or about the body device. Doing so would add and expand the flexibility of *Frenkiel-Gibson* portable storage module.

### ***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (703) 306-5508. The examiner can normally be reached between 6:30 - 4:00

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from Monday to Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin, can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3718. Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Mailed responses to this action should be sent to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

Faxes for Official/formal (After Final) communications or for informal or draft communications (please label "PROPOSED" or "DRAFT") sent to:

(703) 872-9306

Hand-delivered responses should be brought to:

USTPO, 2011 South Clark Place, Customer Window  
Crystal Plaza Two, Lobby Room 1B03, Arlington, VA, 22202 Crystal Park II,

2121.

Tammara Peyton

January 10, 2004

  
FRITZ FLEMING  
PRIMARY EXAMINER  
GROUP 2100